In the Claims

Claims 1-6 (Canceled)

7. (Currently amended) A method of removing particulate debris from a vessel using a catheter assembly the method comprising:

inserting and advancing a sheath having a discharge lumen to a location in the vessel said delivery sheath discharge lumen coupled to a collection vessel, said sheath not having an occlusion balloon thereon such that said sheath partially blocks the vessel but allowing some blood flow in the vessel;

inserting and advancing an interventional device to a treatment location said interventional device of type having;

an elongate body enclosing a fluid supply lumen and a angioplasty therapy inflation lumen;

an angioplasty therapy balloon for delivering angioplasty treatment located near the distal tip of said elongate body;

a gap communicating with said fluid supply lumen for introducing a primary fluid <u>jet</u> flow in said vessel, said gap located distal of said therapy balloon, said gap projecting <u>said</u> fluid <u>jet</u> in an initial direction <u>away from said wall adjacent said gap</u>; [adjacent a wall of said elongate body;]

said wall <u>serving to restrict</u> [restricting] entrainment of fluid by said primary fluid flow, thereby creating a pressure difference across said primary fluid <u>jet</u> flow such that said primary fluid flow turns through an angle away from said initial direction <u>away from said wall and turns</u> toward said wall thereby <u>exhibiting the Coanda effect</u> and thereby;

promoting retrograde flow into said discharge lumen.

- 8. (Previously presented) The method of claim 18 wherein said moving step begins near said occlusion and ends after the interventional device enters the delivery sheath.
- 9. (Previously presented) The method of claim 7 wherein said fluid is injected at a first injection pressure above the blood pressure in the vessel and the injected fluid pressure drop to a second exhaust pressure in said delivery catheter where said exhaust

pressure is above said blood pressure, establishing a pressure gradient in said discharge lumen and promoting flow from said gap to said discharge lumen.

Claims 10-17 (Canceled)

- 18. (Previously presented) The method of claim 7 wherein said injection is carried out while moving said interventional device in said vessel with respect to said delivery sheath.
- 19. (Previously presented) The method of claim 7 wherein said discharge lumen is coupled to a syringe collection chamber.
- 20 (Previously presented) The method of claim 7 wherein said discharge lumen is coupled to a syringe vacuum chamber.
- 21. (Previously presented) The method of claim 7 wherein said primary fluid is supplied by a supply syringe chamber.
- 22. (Previously presented) The method of claim 21 wherein the fluid supplied is a thrombolytic.
- 23. (Previously presented) The method of claim 21 wherein the fluid supplied is saline.
- 24. (Previously presented) The method of claim 21 wherein the fluid supplied is contrast agent.

Claims 25-26 (Canceled)

27. (Previously presented) The method of claim 7 wherein said primary fluid is supplied by a supply syringe chamber and said discharge lumen is coupled to a syringe vacuum chamber, and said supply syringe and vacuum syringe are operated together to couple fluid supply with discharge lumen collection.

28. (Currently amended) A method of removing particulate debris from a vessel using a catheter assembly the method comprising:

inserting and advancing a sheath having a discharge lumen to a location in the vessel said delivery sheath discharge lumen coupled to a collection vessel; said sheath not having an occlusion balloon thereon such that said sheath partially blocks the vessel but allowing some blood flow in the vessel;

inserting and advancing an interventional device to a treatment location said interventional device of type having;

an elongate body enclosing a fluid supply lumen and a stent delivery inflation lumen;

a stent deployment balloon for delivering stent treatment located near the distal tip of said elongate body;

a gap communicating with said fluid supply lumen for introducing a primary fluid flow in said vessel, said gap located distal of said stent deployment balloon, said gap projecting fluid in an initial direction <u>away from said wall adjacent said gap;</u> [adjacent a wall of said elongate body;]

said wall <u>serving to restrict</u> [restricting] entrainment of fluid by said primary fluid flow, thereby creating a pressure difference across said primary fluid flow such that said primary fluid flow turns through an angle away from said initial direction of the toward said wall thereby <u>exhibiting the Coanda effect thereby</u>;

promoting retrograde flow into said discharge lumen.

- 29. (Currently amended) The method of claim 28 further including a suction applied to said sheath lumen to withdraw material <u>from</u> [form] said vessel.
- 30. (Currently amended) The method of claim 29 further including a suction applied to said sheath lumen to withdraw material <u>from</u> [form] said vessel.